

*STATE FOREST LAND*  
**SEPA ENVIRONMENTAL CHECKLIST**

***Purpose of checklist:***

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

***Instructions for applicants:***

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use “not applicable” or “does not apply” only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

*Questions in italics are supplemental to Ecology’s standard environmental checklist. They have been added by the DNR to assist in the review of state forest land proposals. Adjacency and landscape/watershed-administrative-unit (WAU) maps for this proposal are available on the DNR internet website at <http://www.dnr.wa.gov/state-environmental-policy-act-sepa>. These maps may also be reviewed at the DNR regional office responsible for the proposal. This checklist is to be used for SEPA evaluation of state forest land activities.*

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

***Instructions for Lead Agencies:***

Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

***Use of checklist for nonproject proposals:***

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

**A. BACKGROUND**

1. Name of proposed project, if applicable:

*Timber Sale Name: Wild Plum Sorts Timber Sale      Agreement # 30-094409*

2. Name of applicant:

**Department of Natural Resources**

3. Address and phone number of applicant and contact person:

**Southeast Region**

**713 Bowers Rd.**

**Ellensburg, WA 98926**

**(509) 925-8510**

**Contact Person: Joe Smith**

4. Date checklist prepared:

08/08/16

5. Agency requesting checklist:

**Department of Natural Resources**

6. Proposed timing or schedule (including phasing, if applicable):

*a. Auction Date: 03/30/2017*

*b. Planned contract end date (but may be extended): 10/31/17*

*c. Phasing: N/A*

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

Timber Sale:

a. *Site preparation:*

TSU NO :1	GROUND MECH	07/01/2017	64 Acres
TSU NO :1	PILE & BURN	11/01/2017	64 Acres
TSU NO :2	GROUND MECH	07/01/2017	119 Acres
TSU NO :2	PILE & BURN	11/01/2017	119 Acres
TSU NO :3	GROUND MECH	07/01/2017	52 Acres
TSU NO :3	PILE & BURN	11/01/2017	52 Acres
TSU NO :4	PILE & BURN	11/01/2016	243 Acres
TSU NO :4	GROUND MECH	07/01/2016	243 Acres
TSU NO :5	PILE & BURN	10/01/2017	25 Acres
TSU NO :5	GROUND MECH	03/30/2017	25 Acres

b. *Regeneration Method:*

TSU NO :1	NATURAL	07/01/2017	64 Acres
TSU NO :2	NATURAL	07/01/2017	119 Acres
TSU NO :3	NATURAL	07/01/2017	52 Acres
TSU NO :4	NATURAL	07/01/2016	243 Acres
TSU NO :5	HAND PLANT	03/01/2018	25 Acres

c. *Vegetation Management:*

No

d. *Thinning:*

No

Roads:

Road maintenance assessments will be conducted and will include periodic ditch and culvert cleanout and grading as necessary. Construction, reconstruction, and pre-haul maintenance are associated with forest management activities.

Rock Pits and/or Sale:

None

Other:

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

- 303 (d) – listed water body in WAU: temp sediment completed TMDL (total maximum daily load):
- Landscape plan:
- Watershed analysis:
- Interdisciplinary team (ID Team) report:
- Road design plan:
- Wildlife report:
- Geotechnical report:
- Other specialist report(s):
- Memorandum of understanding (sportsmen’s groups, neighborhood associations, tribes, etc.):
- Rock pit plan:
- Other:

**Forest Practices Board Manual; Forest Practices Activity Map; Policy for Sustainable Forests (PSF 2006); State Soil Survey; Habitat Conservation Plan (HCP 1997, and Amended 2004); HCP Checklist; Planning and Tracking Reports and associated maps; Road Maintenance and Abandonment Plan (RMAP #270086L). The following information is provided by DNR’s GIS database: WAU Rain-On-Snow Layer; Spotted Owl Habitat and State Lands Stat1 Circle Layer; and USGS and GLO maps.**

**Documents are available upon request at the SE Region office.**

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

**A SEPA proposal, MDNS, and NFD has been completed for road relocations of the E3000 and E3200 roads, located on and adjacent to this timber sale.**

10. List any government approvals or permits that will be needed for your proposal, if known.

- FPA # **2706142, 2706046** FHPA Burning permit Shoreline permit
- Incidental take permit: **PRT-812521** Existing HPA Other: **SEPA 16-050302**

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

a. *Complete proposal description:*

**This proposal is a five unit timber harvest on State Trust land in Kittitas County of approximately 3,302 Mbf. It will use both ground-based and cable harvesting methods. There will be some new construction of roads in and adjacent to the timber sale with two road relocations to help reduce sediment delivery to streams. These road relocations were submitted under separate FPA (2706046) and SEPA (16-050302) documents. Existing forest roads will be reconstructed with some abandonment following the harvest.**

Unit	Proposal Acres (gross)	RMZ Acres	Harvest Acres (net)
1	89	25	64
2	141	22	119
3	89	7	82
4	251	8	243
5	25	5	20
Totals	595	67	528

b. *Timber stand description pre-harvest (include major timber species and origin date), type of harvest, overall unit objectives.*

Unit	Age	Species Composition
1	100-years-old	<b>Overstory:</b> Douglas-fir, ponderosa pine <b>Understory:</b> Douglas-fir, ponderosa pine, grand fir
2	100-years-old	<b>Overstory:</b> Douglas-fir, ponderosa pine <b>Understory:</b> Douglas-fir, ponderosa pine, grand fir
3	100-years-old	<b>Overstory:</b> Douglas-fir, ponderosa pine <b>Understory:</b> Douglas-fir, ponderosa pine, grand fir
4	100-years-old	<b>Overstory:</b> Douglas-fir, ponderosa pine <b>Understory:</b> Douglas-fir, ponderosa pine
5	100-years-old	<b>Overstory:</b> Douglas-fir, ponderosa pine <b>Understory:</b> Douglas-fir, ponderosa pine, grand fir

The total proposal is 595 acres of which 67 acres are unharvested RMZ. There are 508 acres of uneven-aged harvest and 20 acres of variable retention harvest with the overall objective of removing overstocked, bug damaged, and mistletoe infected fir to transition the area into a more resilient stand. Additional objectives are the production of revenue for the Trust ownership (03 and 04), and to provide for wildlife habitat by retaining existing snags, and legacy and snag recruitment trees.

Units 1 – 4 are uneven-aged management that will generally remove trees from lower diameter classes and retain a minimum of 21 of the healthiest, most vigorous, trees. This includes retaining all trees over 30 inches in diameter where operationally feasible.

Unit 5 is a 25 acre variable retention harvest, 5 acres of which are RMZ that will be excluded from harvest. Variable retention harvest was chosen because the existing stand is more severely overstocked, stagnant, and disease and bug infested than the other stands, resulting in an area that could not reasonably leave 21 or more vigorous trees per acre. There are a minimum of 4 seed trees per acre within the harvested area. The remaining retention trees are located in the RMZ resulting in 7-10 trees per acre total left on the unit. This includes retaining all trees over 30 inches in diameter where operationally feasible.

c. Road activity summary. See also forest practice application (FPA) for maps and more details.

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Construction		<b>5965</b>		
Reconstruction		<b>10635</b>		
Abandonment				
Bridge Install/Replace				
Culvert Install/Replace (fish)				
Culvert Install/Replace (no fish)	<b>3</b>			

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist. (See site plan and topographic maps on DNR website: <http://www.dnr.wa.gov/state-environmental-policy-act-sepa> Click on the DNR region under “Current SEPA Actions – Timber Sales.”)

a. Legal description:

**Sections 21, 22, 26, 27, and 35 of T19N R16E, all in Kittitas County.**

b. Distance and direction from nearest town (include road names):

**This proposal is approximately 15 miles west of Ellensburg, Washington and is accessed from the E3000 road off the Elk Heights exit (exit 93) from I-90.**

b. Identify the names of all watershed administrative units (WAU). (See also landscape/WAU map on DNR website <http://www.dnr.wa.gov/state-environmental-policy-act-sepa> under the topic “Current SEPA Project Actions – Timber Sales” for a broader landscape perspective.)

WAU Name	WAU Acres	Proposal Acres
<b>TANEUM CANYON</b>	<b>19771.30</b>	<b>17</b>
<b>YAKIMA RIVER/DRY CREEK</b>	<b>42927.40</b>	<b>578</b>

13. Discuss any known future activities not associated with this proposal that may result in a cumulative change in the environment when combined with the past and current proposal(s). (See digital ortho-photos for WAU and adjacency maps on DNR website <http://www.dnr.wa.gov/state-environmental-policy-act-sepa> for a broader landscape perspective.)

**This proposal is located within the Yakima River/Dry Creek and Taneum Creek Watershed Administrative Units (WAU’s) and the uplands are primarily managed for timber production and livestock grazing. Ownership includes private land, federal land, Washington Department of Natural Resources, and other state (Non-DNR) managed forests. The numbers of forest practice activities shown on the WAU maps (referenced above on the Department’s website) along with observations within the WAU indicate that the WAU is moderately managed for timber production, including salvage and uneven-aged harvests.**

**The following table is an estimated summary of past and future activity on DNR-managed land and privately managed land in the WAU. Information is based off of Forest Practices applications that have been approved in the last seven years compiled by the Department’s GIS database. No attempt was made to predict future timber harvest on other ownerships within the WAU. The source of this information only provided the acreage on the WAU level. This information is derived from activity locations collected by varying methods ranging from hand drawn maps to precise GPS collection. No verification of map accuracy or activity completion is conducted. Totals may not be the sum of all harvest types due to overlapping activities. The same land may be counted more than once if, in the past seven years, more than one Forest Practices application has been approved for different harvests (salvage and even age for example). All acreages are approximate.**

Name	Acres	DNR managed acres	% DNR managed land	Non-DNR land	% Non-DNR land
Yakima River/Dry Creek	42,927	7,399	17.2%	35,528	82.8%
Taneum Canyon	19,771	3,678	18.6%	16,093	81.4%

WAU	DNR harvest acres: Even-aged	DNR harvest acres: Uneven-aged	Non-DNR harvest acres: Even-aged	Non-DNR harvest acres: Uneven-aged
Yakima River/ Dry Creek	642	919	1	385
Taneum Canyon	0	5	0	59

**The Department of Natural Resources has a multi-species Habitat Conservation Plan (HCP with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service concerning threatened and endangered species and their habitats, which requires the Department to manage landscapes to provide and sustain long-term habitat in exchange for an Incidental Take Permit. This agreement substantially helps the Department to mitigate for cumulative effects related to management activities.**

## B. ENVIRONMENTAL ELEMENTS

### 1. Earth

a. General description of the site (check one):

Flat,  Rolling,  Hilly,  Steep Slopes,  Mountainous,  Other:

1) *General description of the WAU or sub-basin(s)(landforms, climate, elevations, and forest vegetation zone).*

**The Yakima River/Dry Creek WAU ranges from 1,558 to 4,257 feet in elevation, with mean elevation of 2,299 feet and generally consists of hilly topography with moderate to steep slopes. The WAU receives a weighted average of 14 inches of precipitation annually, the majority of which falls as snow. The primary timber types are Douglas-fir and ponderosa pine with grand fir, subalpine fir and lodgepole pine in the higher elevations. Secondary species include western larch, Engelmann spruce and quaking aspen. The WAU is located in the ponderosa pine and grand fir vegetation zones.**

**The Taneum Canyon WAU ranges from 1,900 to 5,003 feet in elevation with the mean elevation of 3,457 feet and generally consists of hilly topography with moderate to steep slopes. The WAU receives a weighted average of 27 inches of precipitation annually, the majority of which falls as snow. The primary timber types are Douglas-fir and ponderosa pine with grand fir, subalpine fir, and lodgepole pine in the higher elevations. Secondary species include Western larch, Engelmann spruce, and quaking aspen.**

2) *Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).*

**The proposal area matches the general WAU description.**

b. What is the steepest slope on the site (approximate percent slope)?

**The steepest slope on the site is 65% on approximately 5% of the proposal area.**

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

*Note: The following table is created from state soil survey data. It is a roll-up of general soils information for the soils found in the entire sale area. It is only one of several site assessment tools used in conjunction with actual site inspections for slope stability concerns or erosion potential. It can help indicate potential for shallow, rapid soil movement, but often does not represent deeper soil sub-strata. The actual soils conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors. The state soil survey is a compilation of various surveys with different standards.*

State Soil Survey #	Soil Texture	% Slope	Acres	Mass Wasting Potential	Erosion Potential
8046	STONY LOAM	30-60	125	MEDIUM	HIGH
4311	STONY LOAM	25-45	81	LOW	MEDIUM
3624	STONY LOAM	25-45	76	LOW	MEDIUM
4314	STONY LOAM	25-45	49	LOW	MEDIUM
3623	STONY LOAM	5-25	48	INSIGNIFIC'T	MEDIUM
7558	LOAM	5-25	39	INSIGNIFIC'T	MEDIUM
3625	STONY LOAM	45-65	30	MEDIUM	HIGH
4312	STONY LOAM	45-65	19	MEDIUM	HIGH
7559	LOAM	25-45	19	LOW	MEDIUM
7160	V.STONY LOAM	10-45	16	LOW	N/A
0559	V.COBBLY SILT LOAM	0-25	8	INSIGNIFIC'T	N/A
0562	BOCKER-JUMPE-COMPLEX	0-15	7	No Data	No Data
7560	LOAM	45-65	5	MEDIUM	HIGH
7163	SAPKIN-RUBBLE LAND-COMPLEX	30-75	3	No Data	No Data
0563	BOCKER-SAPKIN-COMPLEX	0-25	3	No Data	No Data

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

None

1) *Surface indications:*

**Slope stability maps showed the potential for surface indicators, but upon further review by a geologist, there are no surface indicators of slope instability.**

2) *Is there evidence of natural slope failures in the sub-basin(s)?*

No  Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:

**Small shallow slope failures may occur near draws during high water runoff periods. This information is based on the WAU information only. Sub-basins have not been formally identified in eastern Washington.**

3) *Are there slope failures in the sub-basin(s) associated with timber harvest activities or roads?*

No  Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:

*Associated management activity:*

4) *Is the proposed site similar to sites where slope failures have occurred previously in the sub-basin(s)?*

No  Yes, describe similarities between the conditions and activities on these sites:

5) *Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.*

- **Skid trails will be blocked, water barred and/or covered with logging slash after use to control erosion.**
- **Timber cutting and skidding will be restricted to dry or frozen conditions.**
- **All roads have been reviewed by a professional engineer and have been included in the Region Road Maintenance and Abandonment Plan (RMAP).**
- **Units have been reviewed by a geologist and are determined to be stable.**

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

*Approx. acreage new roads:*

**7 ac**

*Approx. acreage new landings:*

**5 ac**

*Fill Source:*

**Native soil or rock**

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

**Small amounts of erosion could occur as the result of soils being exposed by operations.**

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? *Approximate percent of proposal in permanent road running surface (includes gravel roads):*

**Less than 1% of the proposal will be covered by graveled forest road.**

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: *(Include protection measures for minimizing compaction or rutting.)*

**Operations during wet soil conditions will be restricted and skid trails will be water barred and/or slash applied following the completion of use. Also, new roads have been designed to minimize and control erosion.**

## 2. Air

- a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

**Small amounts of engine exhaust from logging and road construction equipment and dust from vehicle traffic on roads will be emitted. If landing debris is burned after harvest is completed, smoke will be generated. There will be no emissions once the proposal is completed.**

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

**None known**

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

**If landing debris is burned, it will be in accordance with the Washington State's Smoke Management Plan. A burn permit will be obtained before burning occurs. Also, dust abatement will be addressed through road watering as conditions require.**

### 3. Water

a. Surface Water:

- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. (see timber sale map available at DNR region office, or forest practice application base maps.)

**Yes**

a. Downstream water bodies:

**All streams within the immediate vicinity of the proposal area flow into the Yakima River.**

b. Complete the following riparian & wetland management zone table:

Wetland, Stream, Lake, Pond, or Saltwater Name (if any)	Water Type	Number (how many?)	Avg RMZ/WMZ Width in feet (per side for streams)
Morrison Creek	F	1	100
Unnamed Stream	Np	3	50
Unnamed Stream	Ns	3	none

c. List RMZ/WMZ protection measures including silvicultural prescriptions, road-related RMZ/WMZ protection measures, and wind buffers.

**Streams have been buffered with the following: All Type F streams have a minimum 100' RMZ; all Type Np streams have a minimum 50' RMZ; and all Type Ns streams have a 30' equipment limitation zone.**

- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No  Yes (See RMZ/WMZ table above and timber sale map available at DNR region office.)

*Description (include culverts):*

**Trees will be felled away from all streams. No trees will be felled into or wood placed into streams. Trees may only be cut in RMZs for safety or operational needs, and will be left in place to provide large woody debris functions in the riparian area.**

- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

**None**

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. (Include diversions for fish-passage culvert installation).

No  Yes, description:

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No  Yes, describe location:

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No  Yes, type and volume:

- 7) Does the sub-basin contain soils or terrain susceptible to surface erosion and/or mass wasting? What is the potential for eroded material to enter surface water?

**The majority of the Yakima River/Dry Creek and Taneum Canyon WAU have small streams that flow through areas that have low mass wasting and medium erosion potential, so there is a low probability of naturally eroded material entering surface waters.**

*Is there evidence of changes to the channels in the WAU and sub-basin(s) due to surface erosion or mass wasting (accelerated aggradations, erosion, decrease in large organic debris (LOD), change in channel dimensions)?*

No  Yes, describe changes and possible causes:

8) *Could this proposal affect water quality based on the answers to the questions 1-8 above?*

No             Yes, explain:

9) *What are the approximate road miles per square mile in the WAU and sub-basin(s)? Are you aware of areas where forest roads or road ditches intercept sub-surface flow and deliver surface water to streams, rather than back to the forest floor?*

No             Yes, describe:

**The Yakima River/Dry Creek WAU has approximately 4.5 road miles per square mile. The Taneum Canyon WAU has approximately 4.9 road miles per square mile.**

10) *Is the proposal within a significant rain-on-snow (ROS) zone? If not, **STOP HERE** and go to question B-3-a-13 below. Use the WAU or sub-basin(s) for the ROS percentage questions below.*

No             Yes, approximate percent of sub-basin(s) in significant ROS zone:

**Or, approximate percent of WAU:**

**Yakima River/Dry Creek: 22.7%**

**Taneum Canyon: 33.0%**

11) *If the proposal is within the significant ROS zone, what is the approximate percentage of the WAU or sub-basin(s) within the significant ROS zone (all ownerships) that is (are) rated as hydrologically mature?*

**Yakima River/Dry Creek WAU**

**Of the 22.7% of the WAU in the rain-on-snow zone, 66.8% is hydrologically mature.**

**Taneum Canyon WAU**

**Of the 33.0% of the WAU in the rain-on-snow zone, 95.2% is hydrologically mature.**

12) *Is there evidence of changes to channels associated with peak flows in the WAU and sub-basin(s)?*

No             Yes, describe observations in the WAU and in the sub-basin(s):

13) *Based on your answers to questions B-3-a-10 through B-3-a-13 above, describe whether and how this proposal, in combination with other past, current, or reasonably foreseeable proposals in the WAU and sub-basin(s), may contribute to a peak flow impact.*

**The current proposal may slightly change the timing, duration, and/or magnitude of peak flows due to decreased transpiration and canopy interception, but measurable impacts are not anticipated.**

14) *Is there water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity that could be affected by changes in surface water amounts, quality, or movements as a result of this proposal?*

No                       Yes, possible impacts:

15) *Based on your answers to questions B-3-a-10 through B-3-a-15 above, note any protection measures addressing possible peak flow/flooding impacts.*

**Type F and Np no harvest RMZs to protect stream banks from erosion.**

**See B.1.d.5 and B.1.h for further protection measures.**

b. Ground Water:

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

**No**

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

**N/A**

3) *Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or down slope of the proposed activity that could be affected by changes in groundwater amounts, timing, or movements as a result this proposal?*

*No*       *Yes, describe:*

**There are three domestic wells that are approximately a quarter mile from this activity.**

*a. Note protection measures, if any.*

**Well owners will be contacted about the timber sale proposal prior to beginning operations, but no impacts are anticipated due to uneven-aged management leaving a stocked forest to help continue regulating the ground water.**

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

**Storm water runoff from road surfaces will be collected by roadside ditches and diverted onto the forest floor via ditch-outs and cross drain culverts.**

2) Could waste materials enter ground or surface waters? If so, generally describe.

*No*       *Yes, describe:*

*a. Note protection measures, if any.*

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

**No**

- d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

(See surface water, ground water, and water runoff sections above, questions B-3-a-1-c, B-3-a-16, B-3-b-3-a, and B-3-c-2-a.)

**Surface water runoff will be diverted from skid trails by water bars on sloped sections of trail.**

#### 4. Plants

- a. Check the types of vegetation found on the site:

deciduous tree:

alder, maple, aspen, cottonwood, western larch, birch,  
other:

evergreen tree:

Douglas fir, grand fir, Pacific silver fir, ponderosa pine,   
lodgepole pine, western hemlock, mountain hemlock, Englemann  
spruce, Sitka spruce, red cedar, yellow cedar, other:

shrubs:

huckleberry, salmonberry, salal, other:

**bitterbrush, oceanspray, vine maple**

grass

pasture

crop or grain

wet soil plants: cattail, buttercup, bullrush, skunk cabbage, devil's club,  
other:

water plants: water lily, eelgrass, milfoil, other:

other types of vegetation:

plant communities of concern:

- b. What kind and amount of vegetation will be removed or altered? (See answers to questions A-11-a, A-11-b, B-3-a-1-b and B-3-a-1-c. The following sub-questions merely supplement those answers.)

**Approximately 3,302 Mbf of Douglas-fir, ponderosa pine, and grand fir timber will be removed.**

- 1) Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. (See color landscape/WAU and adjacency maps on the DNR website: <http://www.dnr.wa.gov/state-environmental-policy-act-sepa> (Click on the DNR region under the Topic “Current SEPA Project Actions - Timber Sales.”))

**The proposal area is surrounded by stands that are similar in age and density of Douglas-fir, ponderosa pine, and grand fir, as well as young ponderosa pine plantations in much of section 27. The surrounding stands are uneven-aged with the majority of trees approximately 80-100 years of age. A few larger older remnant ponderosa pines are scattered. There is a small component of Western larch and grand fir, less than 5% in the overstory.**

- 2) Retention tree plan:

**In Units 1, 2, 3, and 4, wildlife reserve trees and green recruitment trees will be left across all acres. Large legacy trees will be retained. Douglas-fir and Western larch trees are retained for diversity. Snags will be retained where operationally possible and safety considerations have been implemented. Legacy trees and seed trees are retained at a density of 21 TPA.**

**On Unit 5, large legacy trees, wildlife reserve trees, green recruitment trees, and snags will be retained across all acres at a density of approximately 7-10 TPA.**

- c. List threatened and endangered *plant* species known to be on or near the site.

**None found in the database or on site.**

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

**None**

- e. List all noxious weeds and invasive species known to be on or near the site.

**Thistle and knapweed species**

**5. Animals**

- a. List any birds and other animals *or unique habitats* which have been observed on or near the site or are known to be on or near the site. Examples include:

reptiles: Sharp-tailed Snake

birds: hawk, heron, eagle, songbirds, pigeon, other:

**Pileated Woodpecker, Northern Goshawk, Great Gray Owl, Turkey**

mammals: deer, bear, elk, beaver, other:

**Cougar, Wolf, Coyote, Ground Squirrel, Western Gray Squirrel**

fish: bass, salmon, trout, herring, shellfish, other:

*unique habitats*: talus slopes, caves, cliffs, oak woodlands, balds,  
mineral springs

- b. List any threatened and endangered species known to be on or near the site *include federal- and state-listed species*).

TSU Number	FMU_ID	Common Name	Federal Listing Status	WA State Listing Status
U1 U2 U3 U4 U5	65735 65737 65738 79117 95484	Western Gray Squirrel	None	Threatened
U1 U2 U3 U4 U5	65735 65737 65738 79117 95484	Gray Wolf	Endangered	Endangered
U1 U2 U3 U4 U5	65735 65737 65738 79117 95484	Bull Trout	Threatened	Candidate

**There are two Gray Wolf observations from the early 90’s located over half a mile from the sale area. The sightings are not class 1 and there are no known den sites within eight miles of the sale.**

**There is a Western Gray Squirrel sighting over a mile from the sale area. There was no indication of Gray Squirrel presence or habitat within the sale area.**

**This proposal is located within the overlay of potential Bull Trout habitat. This proposal’s protection of fish bearing streams is designed to protect any potential bull trout habitat present.**

c. Is the site part of a migration route? If so, explain.

*Pacific flyway*       *Other migration route:*      *Explain if any boxes checked:*

**This proposal is located in the Columbia River Flyway, which is part of the Pacific Flyway. Migratory waterfowl use the Columbia River Flyway; however, the area in which this proposal is contained is not generally the type of area used for resting or feeding by migratory waterfowl. While migrating through Pacific Northwest Forests, many Neotropical migratory birds are closely associated with riparian areas, cliffs, snags, and structurally unique trees. Riparian areas and special habitats are protected through implementation of the Department's Habitat Conservation Plan and Forest Practices.**

d. Proposed measures to preserve or enhance wildlife, if any:

**This sale has been designated to comply with the Department's HCP and provides for the protection of wildlife and their habitats. Leave trees and snags dispersed across the units provide habitat for avian species. Well engineered and constructed roads reduce potential water quality impacts for downstream fish populations. Large diameter leave trees will remain post-harvest to enhance the wildlife habitat value of the future stand.**

**No harvest activities and no equipment will go through talus slopes or balds.**

**Gray Wolf: No management plan is required as there are no known den sites within eight miles of the sale.**

**Western Gray Squirrel: No management plan is required as there are no known sightings within the sale area.**

**Northern Goshawk: There are observations in the area, but no current or historic nest sites are known.**

**If any of the species listed above are discovered during operations, the operations will be halted and the Department of Natural Resources region biologist will be contacted to determine a site protection plan.**

1) *Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.*

- **Riparian Habitat:**
  - **No harvest RMZ's on type F and Np streams**
  - **Equipment Limitation Zones on all type Ns streams**
  
- **Upland Habitat**
  - **A minimum of 21 leave trees per acre were left in units 1-4**
  - **Approximately 7-10 leave trees per acre were left on unit 5**
  - **Snags will be retained where operationally feasible**
  - **Older large downed woody debris will be left on site**
  - **All trees over 30 inches dbh will be retained where operationally feasible.**

e. List any invasive animal species known to be on or near the site.

**None known**

## **6. Energy and natural resources**

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

**N/A**

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

**No**

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

**N/A**

## 7. Environmental health

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

**There is a minimal hazard from fluid spills incidental to operating heavy equipment. There is the possibility of fire ignition during the operating period, especially during fire season.**

- 1) Describe any known or possible contamination at the site from present or past uses.

**None known**

- 2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

**None known**

- 3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

**Portable fuel tanks with diesel for refueling equipment. Hydraulic fluids and grease will be used to service equipment.**

- 4) Describe special emergency services that might be required.

**There are no special emergency services requested at this time. In the event of a lubricant spill the contractor will contact the Department of Natural Resources and the Department of Ecology.**

- 5) Proposed measures to reduce or control environmental health hazards, if any:

**The cessation of operations may occur during periods of time when the risk of fire is increased. Fire tools and equipment, including pump trucks and/or pump trailers, will be required on site during fire season. No oil or lubricants will be allowed to be disposed of on site. Contractors will be required to have spill kits on site to contain any potential spills.**

- b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

**None**

- 2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

**Log trucks will use forest roads and county roads. This is normal activity for this area and is consistent with existing traffic. Noise will be increased during daylight hours generated from the operation of machinery and power tools.**

- 3) Proposed measures to reduce or control noise impacts, if any:

**All operations and hauling associated with the areas of the proposed sale that are approximately ¼ mile from local residences will be restricted to Monday through Friday from 6:00 a.m. - 6:00 p.m. daily.**

## **8. Land and shoreline use**

- a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe. (*Site includes the complete proposal, e.g. rock pits and access roads.*)

**Forest land management, agriculture and livestock grazing.**

- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

**Yes. The land is currently used as working forest lands. None of the lands will be converted to other uses.**

- 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

**No**

- c. Describe any structures on the site.

**None**

- d. Will any structures be demolished? If so, what?

**No**

- e. What is the current zoning classification of the site?

**Forest Resource**

f. What is the current comprehensive plan designation of the site?

**Forestry and Range**

g. If applicable, what is the current shoreline master program designation of the site?

N/A

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

No

i. Approximately how many people would reside or work in the completed project?

N/A

j. Approximately how many people would the completed project displace?

None

k. Proposed measures to avoid or reduce displacement impacts, if any:

None

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

None

m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:

**This proposal is consistent with current landscape objectives. There is no change to the existing land use, and no impacts from adjacent land uses on this proposal.**

**9. Housing**

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None

- c. Proposed measures to reduce or control housing impacts, if any:

**None**

## 10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

**N/A**

- b. What views in the immediate vicinity would be altered or obstructed?

**The view of the proposal area will appear to be less densely stocked from portions of I-90 and scattered housing in the area.**

- 1) *Is this proposal visible from a residential area, town, city, developed recreation site, or a scenic vista?*

No  Yes, viewing location:

**Scattered housing in the vicinity of Elk Heights.**

- 2) *Is this proposal visible from a major transportation or designated scenic corridor (county road, state or interstate highway, US route, river, or Columbia Gorge SMA)?*

No  Yes, scenic corridor name:

**Interstate 90**

- 3) *How will this proposal affect any views described in 1) or 2) above?*

**The treated area will appear to be less densely stocked with timber.**

- c. Proposed measures to reduce or control aesthetic impacts, if any:

**Leave trees will be from the larger size classes, and spacing requirements will minimize large openings between leave trees.**

## 11. Light and glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

**None**

- b. Could light or glare from the finished project be a safety hazard or interfere with views?

N/A

- c. What existing off-site sources of light or glare may affect your proposal?

N/A

- d. Proposed measures to reduce or control light and glare impacts, if any:

None

## 12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity?

**There are roads that are designated as Green Dot roads for public access adjacent to and through parts of the timber sale. Informal recreational opportunities such as hunting, hiking snowmobiling, horseback riding, mountain bike riding, and other informal outdoor recreation activities may occur within the proposal area.**

- b. Would the proposed project displace any existing recreational uses? If so, describe.

**Possible short term impacts during construction of the E3000 Road. The relocated E3000 Road will become part of the DNR's Green Dot Road Management System and that portion of the E3000 Road to be abandoned will be taken off the DNR's Green Dot Road Management System.**

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

**Roads in the project area will remain open to recreationists during the harvest whenever it is safe to do so. Signs informing of felling and hauling will be posted. There will be no long term impacts to recreation use. The operation is expected to progress quickly and disruptions will be temporary.**

## 13. Historic and cultural preservation

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, specifically describe.

No

- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

**Yes**

- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

**Department of Natural Resources archaeologists have evaluated the proposed harvest units in relation to the Statewide Archaeological Predictive Model, their own knowledge of cultural resources in the region, historic maps, and in a project-specific analysis of environmental and other data in the DNR GIS.**

- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

**A DNR archaeologist came and looked at the harvest units and in doing so, found evidence of cultural resources. The archaeologist consulted with their contact at the Yakama Nation and these resources were then bounded out of the unit with a buffer selected by the archaeologist.**

**In the event that any archaeological resources are encountered, the ground disturbing activities would be halted and a Department of Natural Resources Archaeologist will be contacted to survey the site and develop a new Site Protection Plan. The Department's Inadvertent Discovery Plan is available at the Region Office.**

#### **14. Transportation**

- a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

**Elk Heights Rd.**

- 1) *Is it likely that this proposal will contribute to an existing safety, noise, dust, maintenance, or other transportation impact problem(s)?*

**No**

- b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

**No**

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

**None**

- d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

**Minor improvements to existing forest management roads.**

- 1) *How does this proposal impact the overall transportation system/circulation in the surrounding area, if at all?*

**N/A**

- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

**No**

- f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

**10-20 trips per day during active operations.**

- g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

**No**

- h. Proposed measures to reduce or control transportation impacts, if any:

**There are no proposed measures and there are no anticipated long term impacts.**

## **15. Public services**

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

**No**

b. Proposed measures to reduce or control direct impacts on public services, if any.

None

**16. Utilities**

a. Check utilities currently available at the site:

- electricity  natural gas  water  refuse service  telephone  sanitary sewer  
 septic system  other:

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

None

**C. SIGNATURE**

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: 

Name of signee Joseph Smith

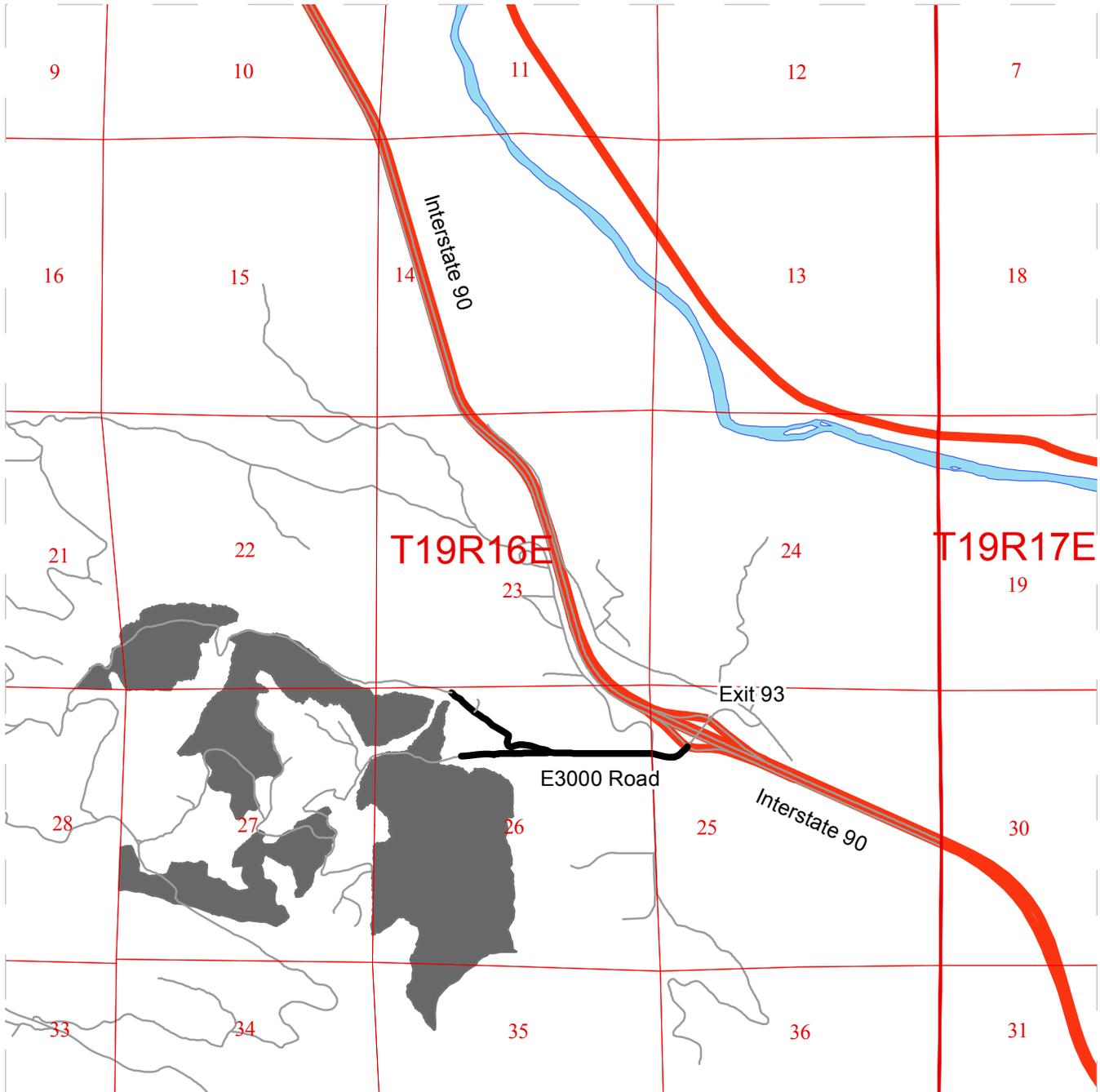
Position and Agency/Organization Acting Forest operations District Manager

Date Submitted: 09/15/16

# DRIVING MAP

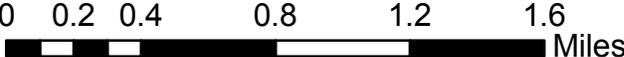
**SALE NAME:** WILD PLUM SORTS  
**AGREEMENT#:** 30-094409  
**TOWNSHIP(S):** T19R16E  
**TRUST(S):** Common School and Indemnity(3), Agricultural School(4)

**REGION:** Southeast Region  
**COUNTY(S):** KITTITAS  
**ELEVATION RGE:** 2376-3412



	Timber Sale Unit
	Highways
	Haul Route
	Other Route
	Public Land Survey Sections

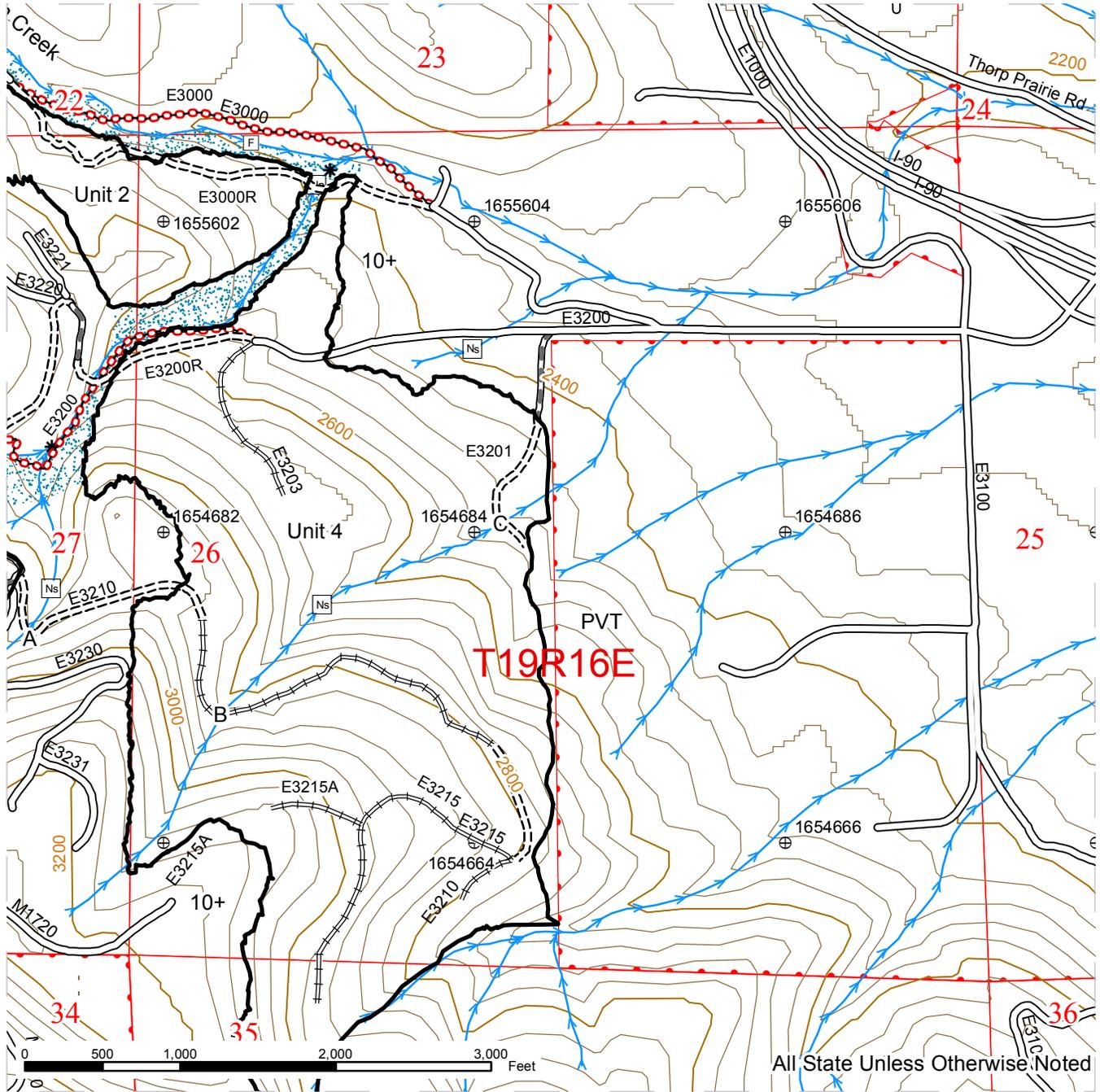
From Cle Elum, drive east on Interstate 90 for 8 miles to Exit 93. Take Exit 93 and turn right onto Elk Heights County Road and drive southwest for 0.2 miles to start of E3000 Road. Drive west on E3000 Road for 0.4 miles to junction of E3000 & E3200 Roads.




# FOREST PRACTICES ACTIVITY MAP

SALE NAME: WILD PLUM SORTS  
 APPLICATION #: 30-094409

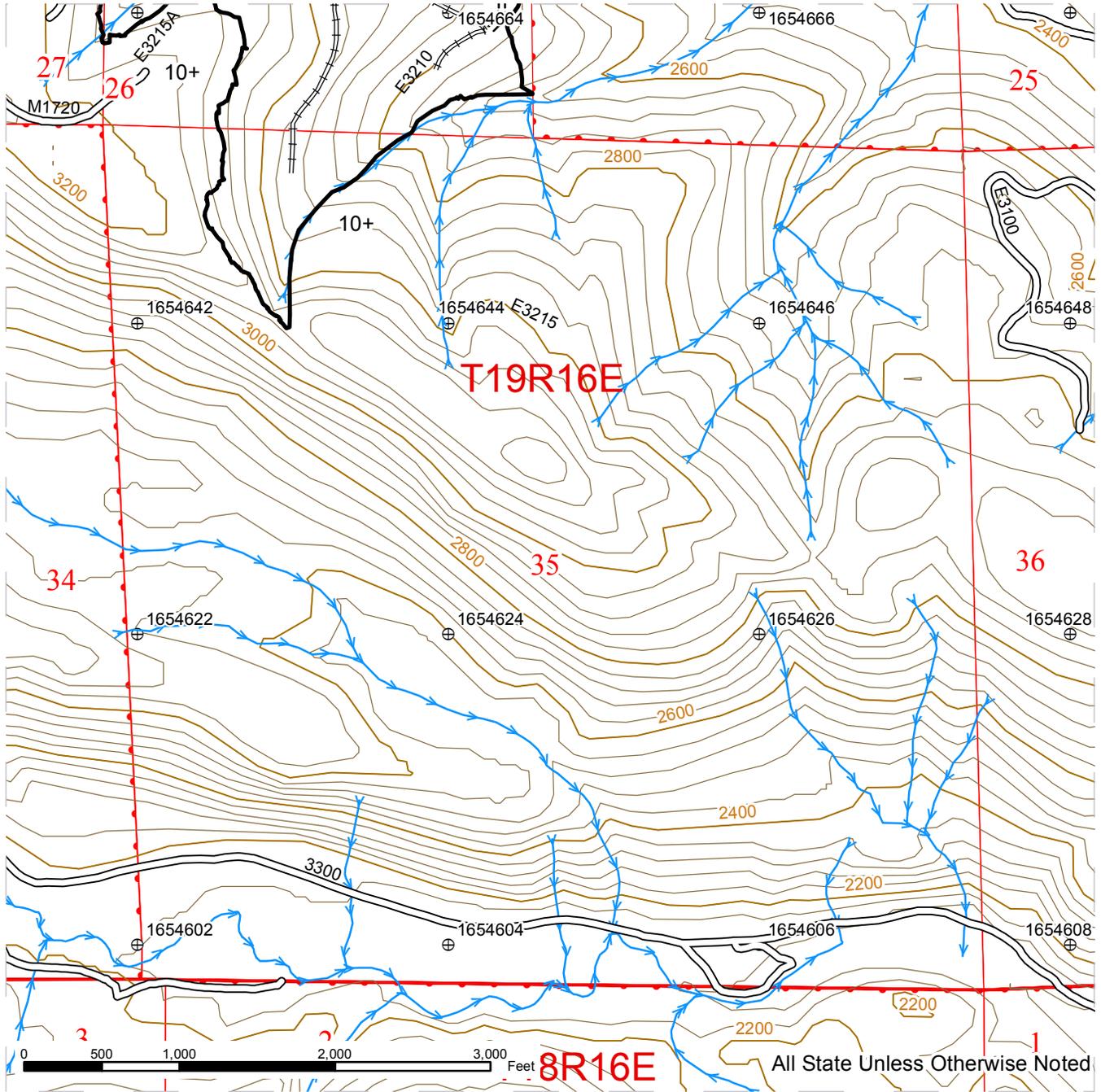
COUNTY(S): KITTITAS  
 TOWNSHIP(S): T19R16E



# FOREST PRACTICES ACTIVITY MAP

SALE NAME: WILD PLUM SORTS  
 APPLICATION #: 30-094409

COUNTY(S): KITTITAS  
 TOWNSHIP(S): T19R16E



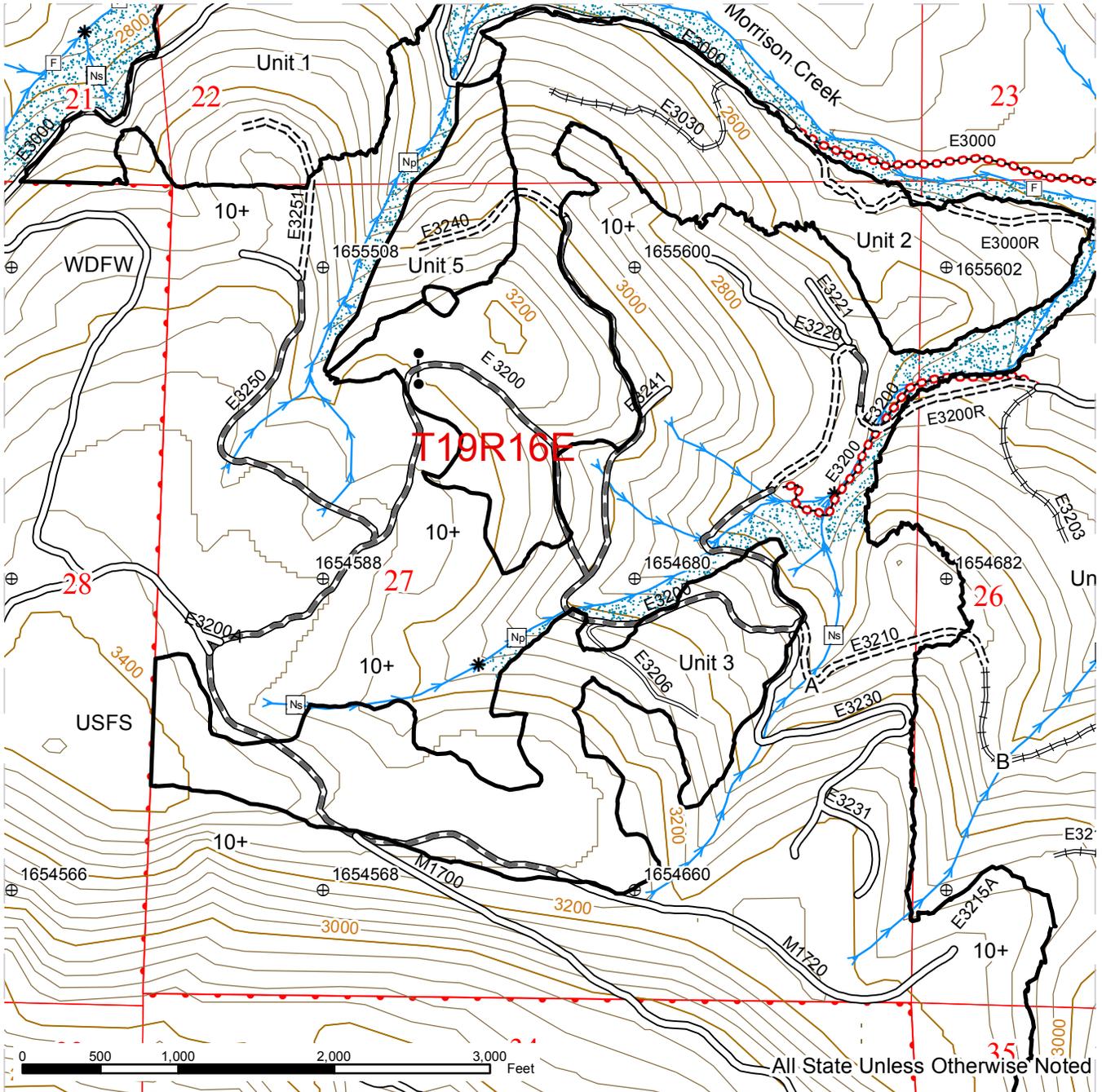
Legend	
Timber Sale Unit	Public Land Survey Sections
Riparian Mgt Zone	Public Land Survey Townships
Streams	DNR Managed Lands
Stream Type	Gates (Corporate)
Stream Break	Tics - 2000' Interval
Existing Roads	Required Abandonment
Required Construction	Required Reconstruction
Required Pre-Haul Maintenance	



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 APPLICATION #: 30-094409

COUNTY(S): KITTITAS  
 TOWNSHIP(S): T19R16E

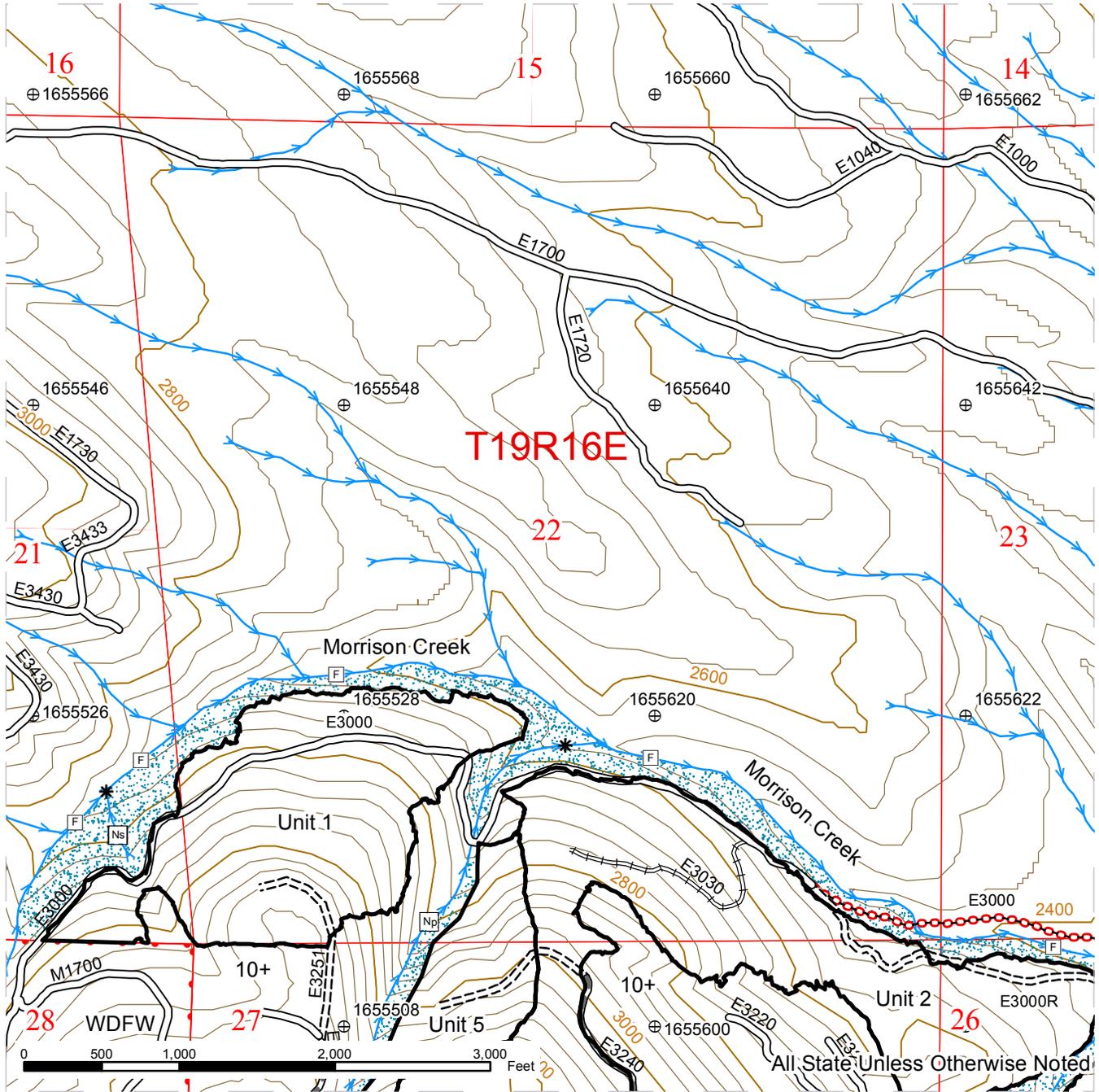


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COUNTY(S): KITTITAS  
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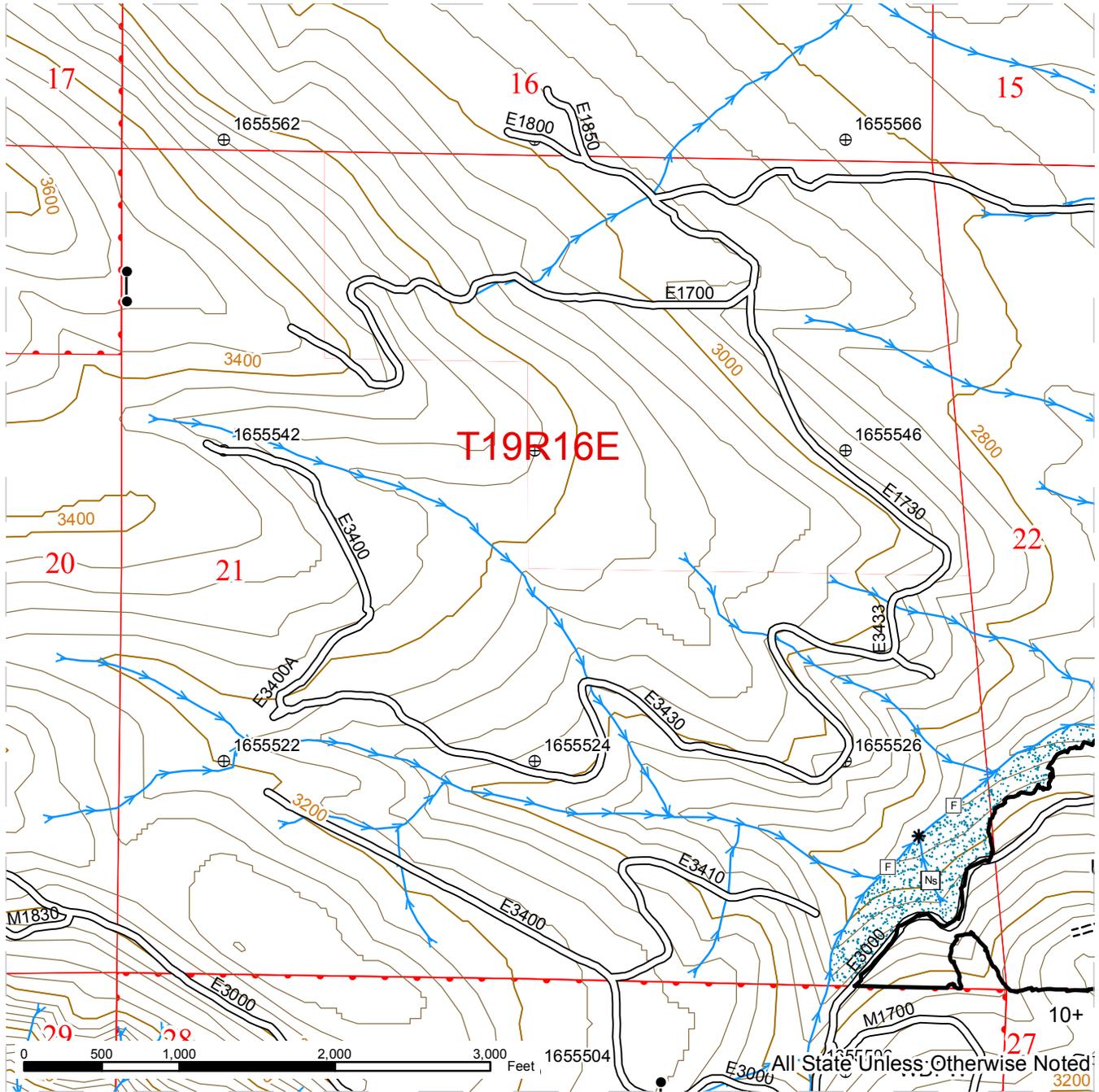


Legend	
Timber Sale Unit	Public Land Survey Sections
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 APPLICATION #: 30-094409

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Legend	
Timber Sale Unit	Public Land Survey Sections
Riparian Mgt Zone	Public Land Survey Townships
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